CLINICAL REMINDERS MST FUNCTIONALITY

PXRM*1.5*7

INSTALLATION AND SETUP GUIDE

January 2002

Department of Veterans Affairs
VistA SD&D

Preface

Purpose of Installation and Setup Guide

This Installation and Setup Guide describes how to prepare for, install, and implement Clinical Reminders patch PXRM*1.5*7, Clinical Reminders MST Functionality.

Recommended Users

- Department of Veterans Affairs Medical Center (VAMC) Information Resources Management (IRM) staff
- Clinical Reminders Managers

Related Manuals
Clinical Reminders V. 1.5 Installation Guide (PXRMIG.PDF)
Clinical Reminders V. 1.5 Manager Manual (PXRMTM.PDF)

Manuals are available in Portable Document Format (PDF) at the following locations:
- Albany   152.127.1.5   anonymous.software
- Hines   152.129.1.110   anonymous.software
- Salt Lake City   152.131.2.1   anonymous.software

Web Sites
SD&D National Web page   http://vista.med.va.gov/reminders
                         Contains manuals and other information about Clinical Reminders

VHA Directive 2000-008

                         http://vista.med.va.gov/vdsi/vista_directives/Documents/2000/VHA_DIR_2000_008.pdf
                         Sexual Trauma Counseling Section of the Veterans Millennium Health Care Act

Contents

Introduction

Background

The Millennium Healthcare and Benefit Act, Public Law 106-117, Section 115, Counseling and Treatment for Veterans Who Have Experienced Sexual Trauma, includes provisions for development of a formal mechanism for reporting on outreach activities and require the Veterans Administration (VA) to provide counseling and appropriate care and services for treatment of Military Sexual Trauma (MST).

As a result, the Women Veterans Health Program (WVHP) has requested Veterans Health Information System and Technology Architecture (VistA) enhancements to support the screening of all veterans (men and women) for MST, identification of non-VA workload associated with MST, and enhanced national reporting of MST data. Veterans Health Administration (VHA) Directive 2000-008 and VHA Directive 99-039 provide guidance in the screening, tracking and documentation of MST in all enrolled veterans who utilize VHA. Additionally, a "Best Practice" manual provided field guidance on creating local Implementation Support Teams (IST), developing MST screening processes, and documenting screening results using the VistA Military Sexual Trauma database within the Patient Registration Package.

Currently, there are no automated methods for identifying all veterans who require MST screening nor collection of data for national reporting. Initial programs focused only on female veterans who may require MST screening. Manual surveys showed a 64% increase in veterans reporting MST between Fiscal Year (FY) 1994 (5,885 veterans) and FY 1998 (9,686 veterans). It is important to note that these numbers reflect only MST data for women veterans and have not included data on male veterans.

In FY1999, VistA enhancements provided the ability to record or edit veterans' MST status in VistA and also created an MST "outpatient classification code" similar to Agent Orange. Once a veteran has reported MST, the classification code triggers the staff via VistA prompts when they are checking out an encounter to be prompted for whether the encounter is related to MST. VistA began including the MST status and classification code in Patient Care Encounter (PCE) transmissions in May 2000. The Patient Treatment File (PTF) patch was released to sites on March 6, 2001.

Scope

The effort for implementing the MST section of the Millennium Healthcare and Benefits Act (Mill Bill) will impact Fee Basis, Women Health (WH), Health Eligibility Center (HEC/Enrollment), Clinician Desktop, Patient Information Management Systems (PIMS), the Corporate Databases, and VistA software packages.

The enhancements will provide a means for identifying non-VA MST workload in the Fee Basis application, clinical reminders to clinicians, and specifications for the VA and non-VA workload reports to be generated at the Austin Automation Center (AAC). Also, PIMS and HEC will manage the MST status sharing between sites to minimize the

instances in which a veteran is repeatedly asked about MST status. HEC will act as the authoritative database source.

Relationships Between MST-Related Packages

This enhancement includes changes to HEC, Enrollment, PIMS, Fee Basis, Women Health, CPRS, and Corporate Databases to include the Central Fee Databases. There will be no changes to the National Patient Care Database (NPCD) database. NPCD will continue to accept and store MST data.

The WH, PIMS, CPRS, and PCE packages all have the potential for capturing MST-related data with local activities. PCE data also contains MST-related encounter information that is used to update NPCD. PTF also updates NPCD. Nationally, when the HEC receives an update, VAMC sites are updated.

Database Repository

The data for MST will be entered locally in the VistA system and will be shared with the HEC as part of the current HL7 messaging capabilities. The information entered in the VistA system is sent to the HEC so that it can be transmitted to other VA health care facilities of record. Locally, MST-related, non-VA care will be entered into the Fee Basis system. This information will be sent to Central Fee, where Outpatient non-VA data will be used for national reporting. Inpatient non-VA care is sent to PTF. The system requirements, identified in this document, include additions and modifications to existing field entries on the VistA, HEC, Fee Basis, and Central Fee. There will be no changes to the NPCD or PTF database. NPCD will continue to accept and store MST data.

System Features

There are multiple objectives with Mill Bill MST. To determine the amount of care being provided to veterans who have experienced MST, the Fee Basis system will locally keep track of MST related non-VA care. This information will be sent to Central Fee so that reports reflecting the national experience can be generated. In order to improve data quality, redundant fields in the WVH application and PIMS will be synchronized. Legislation mandates that all veterans be screened for MST. To reduce the number of times a veteran would be screened for MST, VAMCs, via PIMS, will provide the HEC with MST status as it is derived. The HEC will be the authoritative database source for MST status and be able to provide other VAMCs with a veteran's MST status upon request. Clinical reminders will provide a mechanism to screen veterans who do not have a MST status for MST and assist with the entry of that information. VHA wants to have reports from the National Databases (NPCD and Central Fee) that will look at the population and trending of MST across VHA.

Clinical Reminders Patch PXRM*1.5*7, CLINICAL REMINDERS MST FUNCTIONALITY

This patch provides new functionality for Clinical Reminders that will help sites meet the mandate to collect Military Sexual Trauma (MST) data.

The patch includes
- A new reminder definition, VA-MST SCREENING, and the findings used by the definition. The findings include:
  - Three reminder terms: MST DECLINES REPORT, MST NEGATIVE REPORT, and MST POSITIVE REPORT
  - A computed finding: VA-MST STATUS
  - Four health factors: MST CATEGORY, MST DECLINES TO ANSWER, MST NO DOES NOT REPORT, and MST YES REPORTS
- A reminder dialog: VA-MST SCREENING.

The reminder dialog has three elements that update PCE with health factor findings (MST NO DOES NOT REPORT, MST YES REPORTS and MST DECLINES TO ANSWER). You will be able to capture data directly to the MST HISTORY file, #29.11, using this reminder dialog.

If your site is already capturing MST data via health factors, education topics, or exams, there is functionality in this patch that will help you synchronize this data with the data in the MST HISTORY file, #29.11. Before the synchronization can be done, you must map the three reminder terms to your local findings. If you have been using health factors that are similar to those listed above, you may consider renaming your health factors to match the names listed above. The renaming must be done BEFORE the patch is installed or it will not work. If you choose not to do this, or your site has been using education topics or exams, you will need to map your findings to these terms before the initial synchronization can be done.

If your site is already capturing MST data via local health factors, education topics, and exams, the national dialog and component elements and groups may be copied to local dialogs, which may then be modified to use local findings. ***The national dialog and component elements and groups may not be edited.*** Alternatively, if you already have reminder dialogs for MST, you may continue to use these if the findings in these dialogs are mapped to the new MST terms.

This patch also includes a new option on the Reminder Managers Menu called Reminders MST Synchronization Management. There are two options on this menu: one for doing the synchronization (Reminders MST Synchronization), and one for checking on the synchronization (Reminders MST Synchronization Report). The first option will allow you to schedule a background job that does the synchronization. The report option will give you data on the initial synchronization and the last daily synchronization.

Summary of Changes

- MST Reminder for clinicians to identify patients who should be asked the screening questions.
- MST Reminder Dialog for clinicians to collect the answers to questions from the CPRS GUI
- New Reminder Computed Finding to find the current MST status from the MST History file.
- New Reminder GUI Process that recognizes a finding mapped to a Reminder Term and passes special processing logic to the GUI to update the MST History file with a new MST Status.
- New CPRS GUI processing that the GUI Reminder Resolution process will use to update the MST History file when local MST Statuses are selected from a reminder dialog.
- Initial Synchronization Option that will use the most recent MST status from running the MST reminder to update the MST History file (29.11). The initial synchronization will automatically schedule the Nightly Synchronization Option.
- Nightly Synchronization Option that can reschedule itself to run nightly. This job will find new activity related to MST Status in local files and update the MST History file accordingly.

Other enhancements and fixes

- A change to the REMINDER SPONSOR, #811.6, file and the Sponsor management tools to allow more than one sponsor. A Sponsor for an individual item may consist of a list of associated sponsors. Fields to store contact information (name, phone number, etc.) are now available in the Sponsor File.

- An enhancement to dialog editing. If a reminder dialog or dialog group is deleted within the Reminder Dialog option, any components of the dialog that are not in use elsewhere will be listed and the option given to delete all these components.

- In addition to support for MST, this patch provides fixes to some problems raised on NOIS messages.

  1. In some cases, error messages were being sent to the user even if a mail group to receive the errors was defined.

  2. An undefined variable error sometimes occurred when using the Exchange Utility to install a Reminder Sponsor or a Mental Health Instrument finding.

  3. If you added three months to the date 10/01/2001, the result came back as 13/1/2001.

4. In the Exchange Utility, if you selected the IA (install all) action and did a quit, then returned to the IA, it would immediately quit. This problem is fixed by this patch. NOIS HIN-1101-41310.

NOIS Messages:

```
ALB-1001-50136
DEN-0901-52465
FAR-0701-40609
HIN-0901-40428
MAC-1001-60088
HIN-1101-41310
```

Changes to the Reminder Exchange Utility

The following changes to Reminder Exchange are included in Patch 7 (PXRM*1.5*7, Clinical Reminders MST Functionality):

- If local findings have been mapped to terms or dialogs, the local finding mappings are retained when a new version of the term or dialog is loaded into the system. This applies to both reminders loaded as a patch and reminders loaded from mail messages.

- Reminder terms retain the existing mappings and add any new findings imported on the term. Dialog components retain the existing mappings and ignore the incoming mappings.

- You will no longer get a MailMan message telling you that a term or a dialog was skipped during the patch install.

Pre-Installation

Pre-Install Step

If you are currently using an MST reminder that uses health factors, you can rename the health factors to match the ones in the nationally distributed terms and dialogs. If this is done before installing patch PXRM*1.5*7, no mapping will be required after installation.

> **Nationally distributed Health Factors**
> MST CATEGORY
> MST DECLINES TO ANSWER
> MST NO DOES NOT REPORT
> MST YES REPORTS

Required Software

Package/Patch	Namespace	Version	Comments
Clinical Reminders	PXRM	1.5	Fully patched
HL7	HL	1.6	Fully patched
Kernel	XU	8.0	Fully patched
MailMan	XM	7.1	Fully patched
PIMS	DG	5.3	Patch 353
VA FileMan	DI	22	Fully patched

Files installed

File Name	File #	Global	Data
CLINICAL REMINDER PARAMETERS	800	PXRM(800,	No
REMINDER SPONSOR	811.6	PXRMD(811.6,	No
REMINDER EXCHANGE FILE	811.8	PXD(811.8,	Yes

Routines Installed

```
PXRMDATE    PXRMDEDT    PXRMDEDX    PXRMDLLA
PXRMEDU     PXRMEXAM    PXRMEXDG    PXRMEXHF
PXRMEXIC    PXRMEXID    PXRMEXIU    PXRMEXLB
PXRMEXLC    PXRMEXLD    PXRMEXLI    PXRMEXPR
PXRMEXPU    PXRMEXSI    PXRMEXU1    PXRMEXU4
PXRMEXU5    PXRMHF      PXRMINQ     PXRMINTR
PXRMMH      PXRMMSG     PXRMMST     PXRMP71
PXRMPDEM    PXRMRPCC    PXRMSPED    PXRMTERM
PXRMUTIL
```

Routine Checksums

Routine	Before Checksum	After Checksum
PXRMDATE	4517542	4565820
PXRMDEDT	10403581	11202842
PXRMDEDX	NEW	3524796
PXRMDLLA	10879374	12541689
PXRMEDU	4278237	5725876
PXRMEXAM	4270459	5708373
PXRMEXDG	6113137	6352317
PXRMEXHF	9281833	9328847
PXRMEXIC	6101702	6328704
PXRMEXID	8214330	8330209
PXRMEXIU	10404722	10674605
PXRMEXLB	6790377	7118913
PXRMEXLC	7438819	7458705
PXRMEXLD	11661938	11855584
PXRMEXLI	4658726	4707100
PXRMEXPR	5100533	5981736
PXRMEXPU	8194202	8551741
PXRMEXSI	2487247	4893280
PXRMEXU1	14020476	12338580
PXRMEXU4	6545286	8956016
PXRMEXU5	NEW	3405927
PXRMHF	9700858	11148226
PXRMINQ	2977680	3422898
PXRMINTR	5770734	7509550
PXRMMH	5944952	6037924
PXRMMSG	449608	452458
PXRMMST	NEW	8766676
PXRMP7I	NEW	1456826
PXRMPDEM	210698	273861
PXRMRPCC	2283809	4080508
PXRMSPED	1529994	1713320
PXRMTERM	6249864	11510802
PXRMUTIL	5197529	5410047

Pre-Install Routine

A pre-install routine, PRE^PXRMP7I, cleans up the data dictionaries for files 800, 811.6, and 811.8.

Post-Install Routine

A post-install routine, POST^PXRMP7I, installs the VA-MST SCREENING "packed" reminder entry into the Exchange File. This routine can be deleted after installation.

Estimated Installation Time

Installation should take about five minutes.

Installation

This build can be loaded with users on the system. Updating of cross-references for the new data added to the files will occur during the install. Installation should take about five minutes.

The install needs to be done by a person with programmer access set to "@."

1. **Retrieve the PXRM*1.5*7 build**

   The preferred method is to FTP the files from download.vista.med.va.gov. This transmits the files from the first available FTP server. Sites may also elect to retrieve software directly from a specific server as follows:

SITE	ADDRESS	DIRECTORY
Albany	ftp.fo-albany.med.va.gov	[ANONYMOUS.SOFTWARE]
Hines	ftp.fo-hines.med.va.gov	[ANONYMOUS.SOFTWARE]
Salt Lake City	ftp.fo-slc.med.va.gov	[ANONYMOUS.SOFTWARE]

2. **Install the build first in a training or test account.**

   Installing in a non-production environment will give you time to get familiar with new functionality and set up files prior to installing the software in production.

3. **Load the distribution.**

   In programmer mode, do ^XUP, select the Kernel Installation & Distribution System menu (XPD MAIN), select the Installation menu option, then the option, Load a Distribution. Enter your directory name and **PXRM_1_5_7.KID** at the Host File prompt.

Example

```
Select Installation Option: LOAD a Distribution
Enter a Host File: C:\ anonymous\PXRM_1_5_7.kid

KIDS Distribution saved on
Comment:

This Distribution contains Transport Globals for the following Package(s):
   PXRM*1.5*7
Distribution OK!

Want to Continue with Load? YES// <Enter>
Loading Distribution...

Build PXRM*1.5*7 has an Enviromental Check Routine
Want to RUN the Environment Check Routine? YES// <Enter>
   PXRM*1.5*7
Will first run the Environment Check Routine, PXRM
```

From the Installation menu, you may elect to use the following options (when prompted for INSTALL NAME, enter).

a. **Backup a Transport Global**
This option will create a backup message of any routines exported with the patch. It will NOT back up any other changes such as DDs or templates.

b. **Compare Transport Global to Current System**
This option will allow you to view all changes that will be made when the patch is installed. It compares all components of the patch (routines, DDs, templates, etc.).

c. **Verify Checksums in Transport Global**
This option will let you ensure the integrity of the routines that are in the transport global. If there are any discrepancies, do not run the Install Package(s) option. Instead, use the Unload a Distribution option to remove the Transport Global from your system. Load the Distribution again. If the problem still exists, log a NOIS and/or call the national Help Desk (1-888-596-HELP) to report the problem.

d. **Print Transport Global**
This option will allow you to view the components of the KIDS build.

4. **Unmap any mapped PXRM* routines.**

5. **Disable journaling on the PXRM global.**

6. **Install the package.**

> **HINT**: If you want to rename local terms because you are currently using an MST reminder that uses health factors, this needs to be done before installing patch PXRM*1.5*7, so that no mapping will be required after installation.

From the Installation menu on the Kernel Installation and Distribution System (KIDS) menu, run the option Install Package(s). Select the package 'PXRM*1.5*7' and proceed with the install. If you have problems with the installation, log a NOIS and/or call the National Help Desk to report the problem.

```
Select Installation & Distribution System Option: Installation
Select Installation Option: INSTALL PACKAGE(S)
Select INSTALL NAME:
```

- Answer "NO" to the following prompts:
  Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
  Want KIDS to INHIBIT LOGONs during install? YES// NO
  Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO

Installation Example

Install of test patch PXRM*1.5*7 IN FAR TST (the Fargo test account)

```
Select Kernel Installation & Distribution System Option: INStallation

Select Installation Option: 1  Load a Distribution
Enter a Host File: T:\PATCHES\PXRM_1_5_7.KID                    Specific to Fargo

KIDS Distribution saved on Sep 17, 2001@09:12:28
Comment: PXRM*1.5*7 Test Build 09/17/2001

This Distribution contains Transport Globals for the following Package(s):
   PXRM*1.5*7
Distribution OK!

Want to Continue with Load? YES// <Enter> default
Loading Distribution...

   PXRM*1.5*7
Use INSTALL NAME: PXRM*1.5*7 to install this Distribution.

Select Installation Option: BAckup a Transport Global

Enter Patch Name in the format Namespace*Version*Patch,
or Enter Package Name in the format Package{space}Version: PXRM*1.5*7
Select INSTALL NAME: PXRM*1.5*7// <Enter> default        Loaded from Distribution
9/19/01@15:41:46
     => PXRM*1.5*7 Test Build 09/17/2001  ;Created on Sep 17, 2001@09:12:28

This Distribution was loaded on Sep 19, 2001@15:41:46 with header of
   PXRM*1.5*7 Test Build 09/17/2001  ;Created on Sep 17, 2001@09:12:28
   It consisted of the following Install(s):
     PXRM*1.5*7
Loading Routines for PXRM*1.5*7.
Routine PXRMDEDX is not on the disk.............
Routine PXRMEXU5 is not on the disk......
Routine PXRMMST is not on the disk..
Routine PXRMP7I is not on the disk......
Backup message #7014745 created
with Subject 'BEFORE PXRM*1.5*7 from TST'
and sent to MCMAINES,THERESA C and PATCHES,ALL D (Specific to Fargo)


Select Installation Option: COmpare Transport Global to Current System
Select INSTALL NAME: PXRM*1.5*7// default         Loaded from Distribution
9/19/01@15:41:46
     => PXRM*1.5*7 Test Build 09/17/2001  ;Created on Sep 17, 2001@09:12:28

This Distribution was loaded on Sep 19, 2001@15:41:46 with header of
   PXRM*1.5*7 Test Build 09/17/2001  ;Created on Sep 17, 2001@09:12:28
   It consisted of the following Install(s):
     PXRM*1.5*7

     Select one of the following:

          1          Full Comparison
          2          Second line of Routines only
          3          Routines only

Type of Compare: 1 Full Comparison
DEVICE: HOME// <Enter>  TELNET
```

```
Compare PXRM*1.5*7 to current site
Routine: PXRMDEDT
* OLD *  PXRMDEDT ; SLC/PJH – Edit PXRM reminder dialog. ;05/30/2001
* NEW *  PXRMDEDT ; SLC/PJH – Edit PXRM reminder dialog. ;08/29/2001
* OLD *   ;;1.5;CLINICAL REMINDERS;**2,5**;Jun 19, 2000
* NEW *   ;;1.5;CLINICAL REMINDERS;**2,5,7**;Jun 19, 2000
* DEL *   .;S DIE("NO^")="OUTOK"
* ADD *   ;Save list of components
* ADD *   N COMP D COMP^PXRMDEDX(DA,.COMP)
* ADD *   ;
* OLD *   I '$D(DA) D:$D(PXRMDIEN) PURGE(PXRMDIEN) S VALMBCK="Q" Q
* NEW *   I '$D(DA) D  Q
* ADD *   .;Clear any pointers from #811.9
* ADD *   .I $D(PXRMDIEN) D PURGE(PXRMDIEN)
* ADD *   .;Option to delete components
* ADD *   .I $D(COMP) D DELETE^PXRMDEDX(.COMP)
* ADD *   .S VALMBCK="Q"

ADD Routine: PXRMDEDX


 Routine: PXRMDLLA
OLD *  PXRMDLLA ;SLC/PJH – REMINDER DIALOG LOADER ;06/15/2001


etc..


Select Installation Option: VErify Checksums in Transport Global

Select INSTALL NAME: PXRM*1.5*7// default       Loaded from Distribution
9/19/01@15:41:46
     => PXRM*1.5*7 Test Build 09/17/2001  ;Created on Sep 17, 2001@09:12:28

This Distribution was loaded on Sep 19, 2001@15:41:46 with header of
   PXRM*1.5*7 Test Build 09/17/2001  ;Created on Sep 17, 2001@09:12:28
   It consisted of the following Install(s):
     PXRM*1.5*7

DEVICE: HOME// <Enter>  TELNET

PACKAGE: PXRM*1.5*7     Sep 19, 2001 3:46 pm                         PAGE 1
-------------------------------------------------------------------------------

   24 Routine checked, 0 failed.


Select Installation Option: INstall Package(s)
Select INSTALL NAME: PXRM*1.5*7// default       Loaded from Distribution
9/19/01@15:41:46
     => PXRM*1.5*7 Test Build 09/17/2001  ;Created on Sep 17, 2001@09:12:28

This Distribution was loaded on Sep 19, 2001@15:41:46 with header of
   PXRM*1.5*7 Test Build 09/17/2001  ;Created on Sep 17, 2001@09:12:28
   It consisted of the following Install(s):
     PXRM*1.5*7
Checking Install for Package PXRM*1.5*7


Install Questions for PXRM*1.5*7


Incoming Files:


   800      CLINICAL REMINDER PARAMETERS
Note:  You already have the 'CLINICAL REMINDER PARAMETERS' File.
```

```
   811.6     REMINDER SPONSOR
Note:  You already have the 'REMINDER SPONSOR' File.

   811.8     REMINDER EXCHANGE FILE  (including data)
Note:  You already have the 'REMINDER EXCHANGE FILE' File.

Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO

Want KIDS to INHIBIT LOGONs during the install? YES// NO
Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

DEVICE: HOME// <Enter>  TELNET


 Install Started for PXRM*1.5*7 :
               Sep 19, 2001@15:47:09
Build Distribution Date: Sep 17, 2001

  Installing Routines:.........................
               Sep 19, 2001@15:47:10

  Running Pre-Install Routine: PRE^PXRMP7I.

  Installing Data Dictionaries: ....
               Sep 19, 2001@15:47:10

  Installing Data:
               Sep 19, 2001@15:47:12

  Installing PACKAGE COMPONENTS:

  Installing PRINT TEMPLATE...

  Installing INPUT TEMPLATE..

  Installing OPTION.........
               Sep 19, 2001@15:47:13
```

Renaming existing MST REMINDER DIALOGS

```
  Running Post-Install Routine: POST^PXRMP7I.

Installing reminder VA-MST SCREENING

  Updating Routine file......

  Updating KIDS files.......

  PXRM*1.5*7 Installed.
               Sep 19, 2001@15:47:17

 INSTALLATION Message #7014746 sent to defined Mail Group and/or S.AAQJSERV.
(Specific to Fargo)

  Install Message sent #7014747
```

HINT: See patch module for a list of options and protocols when installing in production.

7. Build File Print

Use the KIDS Build File Print option for a complete listing of package components (e.g., routines and options) exported with this software.

```
PACKAGE: PXRM*1.5*7     Dec 13, 2001 10:24 am                          PAGE 1
--------------------------------------------------------------------------------
TYPE: SINGLE PACKAGE
TRACK NATIONALLY: YES
NATIONAL PACKAGE: CLINICAL REMINDERS
DESCRIPTION:
This patch provides tools for Clinical Reminders to support MST
functionality. See the National Patch Module for a complete
description.

ENVIRONMENT CHECK :
 PRE-INIT ROUTINE : PRE^PXRMP7I
POST-INIT ROUTINE : POST^PXRMP7I
PRE-TRANSPORT RTN :


                                       UP    SEND  DATA                  USER
                                       DATE  SEC.  COMES  SITE  RSLV  OVER
FILE #      NAME                       DD    CODE  W/FILE DATA  PTS   RIDE
--------------------------------------------------------------------------------

800         CLINICAL REMINDER PARAMETERS YES   YES   NO

811.6       REMINDER SPONSOR           YES   YES   NO

811.8       REMINDER EXCHANGE FILE     NO    NO    YES    REPL  YES   NO
  DATA SCREEN: I Y=9


PRINT TEMPLATE:
   PXRM SPONSOR INQUIRY    FILE #811.6           SEND TO SITE
   PXRM SPONSOR LIST    FILE #811.6              SEND TO SITE

INPUT TEMPLATE:
   PXRM SPONSOR EDIT    FILE #811.6              DELETE AT SITE

ROUTINE:
   PXRMDATE                                      SEND TO SITE
   PXRMDEDT                                      SEND TO SITE
   PXRMDEDX                                      SEND TO SITE
   PXRMDLLA                                      SEND TO SITE
   PXRMEDU                                       SEND TO SITE
   PXRMEXAM                                      SEND TO SITE
   PXRMEXDG                                      SEND TO SITE
   PXRMEXHF                                      SEND TO SITE
   PXRMEXIC                                      SEND TO SITE
   PXRMEXID                                      SEND TO SITE
   PXRMEXIU                                      SEND TO SITE
   PXRMEXLB                                      SEND TO SITE
   PXRMEXLC                                      SEND TO SITE
   PXRMEXLD                                      SEND TO SITE
   PXRMEXLI                                      SEND TO SITE
   PXRMEXPR                                      SEND TO SITE
```

```
   PXRMEXPU                                             SEND TO SITE
   PXRMEXSI                                             SEND TO SITE
   PXRMEXU1                                             SEND TO SITE
   PXRMEXU4                                             SEND TO SITE
   PXRMEXU5                                             SEND TO SITE
   PXRMHF                                               SEND TO SITE
   PXRMINQ                                              SEND TO SITE
   PXRMINTR                                             SEND TO SITE
   PXRMMH                                               SEND TO SITE
   PXRMMSG                                              SEND TO SITE
   PXRMMST                                              SEND TO SITE
   PXRMP7I                                              SEND TO SITE
   PXRMPDEM                                             SEND TO SITE
   PXRMRPCC                                             SEND TO SITE
   PXRMSPED                                             SEND TO SITE
   PXRMTERM                                             SEND TO SITE
   PXRMUTIL                                             SEND TO SITE

OPTION:
   PXRM MANAGERS MENU                                   USE AS LINK FOR MENU ITEMS
   PXRM MST MANAGEMENT                                  SEND TO SITE
   PXRM MST REPORT                                      SEND TO SITE
   PXRM MST SYNCHRONIZATION                             SEND TO SITE
   PXRM SPONSOR EDIT                                    SEND TO SITE
   PXRM SPONSOR INQUIRY                                 SEND TO SITE
   PXRM SPONSOR LIST                                    SEND TO SITE
   PXRM SPONSOR MANAGEMENT                              SEND TO SITE

REQUIRED BUILDS:                                        ACTION:
   PXRM*1.5*5                                           Don't install, leave global
   DG*5.3*353                                           Don't install, leave global
```

8. Install File Print

Use the KIDS Install File Print option to print out the results of the installation process.

9. Enable journaling, if disabled in installation step 5.

10. Map PXRM routines, if unmapped in a pre-installation step.

11. Post-installation routine

The build installs the VA-MST SCREENING "packed" reminder entry into the Exchange File. The post-install routine, POST^PXRMP7I, installs this Exchange file entry. After the installation has finished, if you discover that the "packed" reminder didn't get installed correctly, for some reason, you can use the Exchange options on the Reminders Manager Menu to install the "packed" reminder. Make sure that the Reminder Dialog is linked to the Reminder.

This routine can be deleted after installation.

Setup and Maintenance

A new reminder dialog, VA-MST SCREENING, is exported with Patch 7. The reminder dialog has three elements that update PCE with health factor findings (MST NO DOES NOT REPORT, MST YES REPORTS and MST DECLINES TO ANSWER). If you use this dialog, you will be able to capture data directly to the MST HISTORY file, #29.11.

If your site is already capturing MST data via health factors, education topics, or exams, this patch contains functionality that will help you synchronize this data with the data in the MST HISTORY file, #29.11. Before the synchronization can be done, you must map the three reminder terms to your local findings.

If your site is already capturing MST data via local health factors, education topics, and exams, the national dialog and component elements and groups may be copied to local dialogs, which may then be modified to use local findings. ***The national dialog and component elements and groups may not be edited.***

If you have been using health factors that are similar to those listed above, you may consider renaming your health factors to match the names listed above. The renaming must be done BEFORE the patch is installed or it will not work. If you choose not to do this, or your site has been using education topics or exams, you will need to map your findings to these terms before the initial synchronization can be done. Instructions follow to show you how to do this mapping and synchronization.

NOTE: Many sites are using the "Chicago" solution, which puts a cross-reference on the V Health Factor file. This cross-reference automatically stuffs data into the MST History file whenever certain health factors are entered. If this occurs, there won't be any updates when the MST synchronization is run**.** If your site has modified a data dictionary entry (e.g, Health Factors) by adding a cross-reference, it will be necessary to remove the cross-reference. *Removing the cross-reference requires programmer access.*

To determine if the cross-reference exists, print and review a FileMan data dictionary listing of the V Health Factor file (or request that someone on your IRM staff help you with this).

Installation and Setup Steps

1. **Pre-installation**
    If you're currently collecting MST statuses using health factors, you can change the local name to match the nationally distributed Health Factors before installing patch PXRM*1.5*7. Then you won't need to map local findings to terms after the install.

Nationally Distributed Health Factor		Local Health Factor
MST CATEGORY		
MST YES REPORTS	Y	
MST NO DOES NOT REPORT	N	
MST DECLINES TO ANSWER	D	

2. **Install PXRM*1.5*7, as described in the Installation section of this manual**

3. **Print and review the VA-MST SCREENING reminder definition. *Do not make any changes to this reminder.*** Reviewing the definition will help you understand how MST statuses, health factors, and reminder terms are related.
    Option: Inquire about Reminder Definition on the *Reminder Management Menu.*

    (See Appendix A for a copy of the VA-MST Screening reminder.)

4. **Print and review the VA-MST SCREENING reminder dialog.** If your site is already capturing MST data via local health factors, education topics, and exams, the national dialog and component elements and groups may be copied to local dialogs, which may then be modified to use local findings. ***The national dialog and component elements and groups may not be edited.***

    > **NOTE:** If you have a pre-release version of patch 7, please review your dialog elements to make sure they match the exported elements shown in this manual.

    (See Appendix B for a copy of the VA-MST Screening dialog.)

5. **Map local findings to national reminder terms.**

    > **NOTE: This step isn't necessary if you are already using an MST reminder dialog, and you renamed your health factors before installation of patch 7.**

    5a. Print the Reminder Term definitions for the finding items/terms in the MST reminder definition (or see Appendix B for reminder term descriptions).
    Option: Reminder Term Inquiry on the *Reminder Management Menu.*

When you print the national term definitions, you can compare these to what you are using locally to represent MST terms.

New National Reminder Terms

Three national terms are distributed with the new MST reminder:
    MST POSITIVE REPORT
    MST NEGATIVE REPORT
    MST DECLINED REPORT

These terms are distributed with mappings to the MST History Status computed finding and health factors representing the MST status.

5b. Determine what the clinicians at your site use on encounter forms to collect the directives' MST data. Some sites use health factors with different names, some use education topics, and others use exams.

Health Factors
If you renamed your local name to match the nationally distributed Health Factors, as described in step 1, you don't need to do anything else to map health factors.

Otherwise
Add (map) the local health factor(s) as a finding(s) for the reminder term.

Example of mapping a local Health Factor

```
Select Reminder Term Management Option: TE  Reminder Term Edit

Select Reminder Term: MST
     1    MST DECLINES REPORT        NATIONAL
     2    MST NEGATIVE REPORT        NATIONAL
     3    MST POSITIVE REPORT        NATIONAL
CHOOSE 1-3: 3  MST POSITIVE REPORT     NATIONAL
Select FINDING ITEM: MST YES REPORTS
  FINDING ITEM: MST YES REPORTS//              ◄─── This is where you enter
  EFFECTIVE PERIOD: <Enter>                          the Health Factor to map
  USE INACTIVE PROBLEMS: <Enter>                     to the reminder term.
  WITHIN CATEGORY RANK: <Enter>
  CONDITION:
  MH SCALE: <Enter>
  CONDITION CASE SENSITIVE: NO
  RX TYPE: B  BOTH
Select FINDING ITEM: <Enter>
Input your edit comments.
Edit? NO// <Enter>
Select Reminder Term: <Enter>
```

NOTE: For those sites that have not been collecting any MST data, you need to work with your Encounter Form Designer to change the present classification block to the new one, which also has the MST question info so that it is on printed Encounter Forms as well as asked in the GUI EF:

```
 ============================================================================
Run Date: OCT 24, 2000                          Designation: IBD*3*36
Package : IBD - AUTOMATED INFO  SYSPriority: Mandatory
Version : 3          SEQ #32                        Status: Released
============================================================================


Associated patches: (v)IBD*3*14    <<= must be installed BEFORE `IBD*3*36'
                    (v)IBD*3*29    <<= must be installed BEFORE `IBD*3*36'
                    (v)IBD*3*38    <<= must be installed BEFORE `IBD*3*36'
                    (v)PX*1*74     <<= must be installed BEFORE `IBD*3*36'


Subject: AICS MILITARY SEXUAL TRAUMA (MST) ENHANCEMENT
B. This patch will add eight new AICS encounter form (EF) blocks to
    the AICS Tool Kit.  A summary description of each new encounter form
```

If your site uses Education Topics:

- Determine if you use positive or negative Levels of Understanding. If you don't capture level of understanding, you won't be able to use these education topics to capture MST data.
- If you use positive or negative Levels of Understanding, map your topics to the exported national reminder terms.

Level of Understanding:

1   POOR
2   FAIR
3   GOOD
4   GROUP-NO ASSESSMENT
5   REFUSED

Example of mapping a local Education Topic

```
Select Reminder Term Management Option: TE  Reminder Term Edit

Select Reminder Term: MST
     1    MST DECLINES REPORT        NATIONAL
     2    MST NEGATIVE REPORT        NATIONAL
     3    MST POSITIVE REPORT        NATIONAL
CHOOSE 1-3: 3  MST POSITIVE REPORT      NATIONAL
Select FINDING ITEM: ED.MST
  FINDING ITEM: // <Enter>
  EFFECTIVE PERIOD: <Enter>
  USE INACTIVE PROBLEMS: <Enter>
  WITHIN CATEGORY RANK: <Enter>
  CONDITION: I V=3
  MH SCALE: <Enter>
  CONDITION CASE SENSITIVE: NO
  RX TYPE: B  BOTH
Select FINDING ITEM: <Enter>
Input your edit comments.
Edit? NO// <Enter>
Select Reminder Term: <Enter>
```

> This is where you enter the Education Topic to map to the reminder term.

If you use Exams:
- Determine if you use Results—Abnormal (yes) or Normal (no). If you don't, you won't be able to use these exams to capture MST data.
- If you are capturing abnormal, which equals yes, the condition should be mapped to A

Reminder Term	Related UPDATE Value for the MST History File	EXAM result to equate to MST History
MST POSITIVE REPORT	Y	A
MST NEGATIVE REPORT	N	N
MST DECLINED REPORT	D	

Example of mapping an Exam to a reminder term:

```
Select Reminder Term Management Option: TE  Reminder Term Edit

Select Reminder Term: MST
     1    MST DECLINES REPORT        NATIONAL
     2    MST NEGATIVE REPORT        NATIONAL
     3    MST POSITIVE REPORT        NATIONAL
CHOOSE 1-3: 3  MST POSITIVE REPORT      NATIONAL
Select FINDING ITEM: EX.MST EXAM
  FINDING ITEM: <Enter>
  EFFECTIVE PERIOD: <Enter>
  USE INACTIVE PROBLEMS: <Enter>
  WITHIN CATEGORY RANK: <Enter>
  CONDITION: I V="A"
  MH SCALE: <Enter>
  CONDITION CASE SENSITIVE: NO
  RX TYPE: B  BOTH
Select FINDING ITEM: <Enter>
Input your edit comments.
Edit? NO// <Enter>
Select Reminder Term: <Enter>
```

Defining the CONDITION
The CONDITION for a finding item mapped to a Reminder Term must be written in M code based on very specific Boolean formatting (e.g., I V["POS"]). The CONDITION references the value returned from the reminder evaluation results for the finding. Each type of finding has a specific field that provides the value available to use in the CONDITION logic. This value is generically referred to in the CONDITION field as V. If the finding value is text, enclose the Boolean logic comparison value in quotes (e.g., "positive"). If the finding value is numeric, do not use quotes (e.g.,3). Use VA FileMan help for a detailed explanation of the CONDITION field.

Summary of Finding Items

Finding Item	Field Value Used	Example M Code
Education Topic	Level of understanding	I V=3
Exam	Result	I V="N"
Health Factor	Level/severity	

6. **Run the Reminder Test option after term definitions are completed to review the results of patient data with each of the findings mapped to the term.**
   Option: Reminders Test on the *Reminder Managers Menu*

   For example, if you've mapped your terms to exams, you will see an exam as the resulting value for a term.

7. **Run Clinical Reminders MST Synchronization (PXRM MST SYNCHRONIZATION)**

   Once you have successfully mapped the MST reminder terms, run the initial synchronization, which synchronizes your data with the data in the MST HISTORY file, #29.11.

   The synchronization option is on a new menu that is added to the Reminder Managers Menu with patch 7, MST Synchronization Management. This menu contains two new options, the first of which allows you to schedule a background job that does the synchronization. If you answer "y" to the question "Do you want to run the MST synchronization at the same time every day?" then a synchronization job will be automatically run every day.

   NOTE: If a site uses the exported dialog, the MST History file will be populated and the synchronization will not need to be done, except for the initialization. If a site chooses not to use the dialog, then it will need to run the synchronization to make sure data gets into the MST History file.

Before initiating the initial synchronization, create a list of patients who have been screened but not entered into the MST History file. One way to do this is by using the FileMan search option. For example, to find all patients with the health factor MST DECLINES TO REPORT, you can do this:

```
     Select OPTION: SEARCH FILE ENTRIES

     OUTPUT FROM WHAT FILE: VISIT// V HEALTH FACTORS    (401 entries)

     -A- SEARCH FOR V HEALTH FACTORS FIELD: .01  HEALTH FACTOR
     -A- CONDITION: =  EQUALS
     -A- EQUALS HEALTH FACTORS: MST DECLINES TO ANSWER
     -B- SEARCH FOR V HEALTH FACTORS FIELD:

      IF: A//     HEALTH FACTOR EQUALS 75 (MST DECLINES TO ANSWER)

      STORE RESULTS OF SEARCH IN TEMPLATE:
      SORT BY: NUMBER//
      START WITH NUMBER: FIRST//
      FIRST PRINT FIELD: PATIENT NAME
      THEN PRINT FIELD:
      Heading (S/C): V HEALTH FACTORS SEARCH  Replace
      DEVICE:   ANYWHERE    Right Margin: 80//
      V HEALTH FACTORS SEARCH                      SEP 11,2001  11:38
      PAGE 1

      PATIENT NAME

--------------------------------------------------------------------------

           NUMBER: 419
      XYZ,PATIENT
           NUMBER: 421
      APPLESEED,JOHNNY
           NUMBER: 425
      ANDARUS,BANTONIA
           NUMBER: 426
      RAMBO,JOHNNY

                     4 MATCHES FOUND.
```

Another way to do this is using a FileMan Print. Make a list for each health factor, education topic, or exam you have used to capture MST screening data.

```
Select VA FileMan Option:  Print File Entries

OUTPUT FROM WHAT FILE: V HEALTH FACTORS
SORT BY: NUMBER// .01  HEALTH FACTOR
START WITH HEALTH FACTOR: FIRST// MST
GO TO HEALTH FACTOR: LAST// MSTZ
  WITHIN HEALTH FACTOR, SORT BY: PATIENT NAME
  START WITH PATIENT NAME: FIRST// <Enter>
    WITHIN PATIENT NAME, SORT BY: <Enter>
FIRST PRINT FIELD: .02!  PATIENT NAME
THEN PRINT FIELD: .03  VISIT
THEN PRINT FIELD: <Enter>
Heading (S/C): V HEALTH FACTORS STATISTICS  Replace <Enter>
START AT PAGE: 1// <Enter>
DEVICE: SPOOL
```

Reminders MST Synchronization Example

```
Select Reminder Managers Menu Option: MST  Reminders MST Synchronization
Management

   SYN    Reminders MST Synchronization
   REP    Reminders MST Synchronization Report

Select Reminders MST Synchronization Management Option: SYN  Reminders MST
Synchronization
Queue the Clinical Reminders MST synchronization.
Enter the date and time you want the job to start.
It must be after 09/11/2001@09:01:33 T@1
Do you want to run the MST synchronization at the same time every day? Y//
NO
Task number 594549 queued.
```

Reminders MST Synchronization Report

The report option gives you data on the initial synchronization and the last daily
synchronization.

Example
```
Select Reminders MST Synchronization Management Option: rep
  Reminders MST Synchronization Report

Clinical Reminders MST Synchronization Report
---------------------------------------------
Initial synchronization date: Aug 28, 2001@15:12:15
Number of updates made: 4
Elapsed time: 4:00:34

Last daily synchronization date: Sep 05, 2001@08:45:48
Number of updates made: 0
Elapsed time:  3:57:34
```

NOTE: See page 26 in the Troubleshooting section about a potential MST
synchronization update problem. The error message for the MST synchronization has
been enhanced for those times when the DGMSTAPI fails to do the update.

8. **(optional) Run a Reminders Due Report to determine if the relevant patients
    have been correctly identified. You can compare this report with MST history
    reports to crosscheck data.**
    Option: Reminders Due on the *Reminder Reports menu*
       The MST History Report by Patient is found on the Military Sexual Trauma
       Menu [DGMST PRIMARY MENU], MST Outputs [DGMST OUTPUTS].

9. **Activate CPRS parameters, if they're not already active.**

a. If you are NOT using the New Reminders Parameter (that is, ORQQPX NEW REMINDER PARAMS, is set to NO), activate the MST Clinical Reminder as follows:

1) From the Reminders Manager Menu, choose CPRS Reminder Configuration .. [PXRM CPRS CONFIGURATION], then option CPRS Cover Sheet Reminder List [PXRM CPRS COVER SHEET LIST]. Place the reminder on the appropriate entity for your site. As this is a national reminder, consideration should be given to placing this at the system entity.
    or
2) From the General Parameter Tools Option [XPAR MENU TOOLS], choose the option Edit Parameter Values [XPAR EDIT PARAMETER]. The parameter to be edited is Clinical Reminders for Search, [ORQQPX SEARCH ITEMS]. As above, place the reminder on the appropriate entity for your site.

b. If you have activated the new reminder parameter (ORQQPX NEW REMINDER PARAMS is set to YES), activate the MST Clinical Reminder by:

1) Open GUI chart. (Person activating reminder is required to have the option PXRM CPRS Configuration assigned to their secondary menu.)
2) Click on the clock and then from the Available Reminder box, pull down the Action menu, and choose Edit Coversheet Reminder List.
3) Place reminder on the appropriate level for your site.   As this is a national reminder, consideration should be given to place this at the system level and locked.

c. Additionally, if your site uses the functionality of lookup categories, the parameter, Reminder Categories for Lookup [PXRM CPRS LOOKUP CATEGORIES], will need to be populated.

d. If your site has not activated clinical reminders, the parameter, Reminders Active [PXRM GUI REMINDERS ACTIVE], will need to be set to yes via the General Parameter Tools Option or the CPRS Reminder Configuration menu in the PXRM Managers Menu.

10. **If necessary, link the MST Reminder to the MST Dialog.**
The silent install that occurs when the patch is loaded installs the reminder and dialog and should link them together. If this doesn't occur for some reason, you can manually link the dialog, as follows:
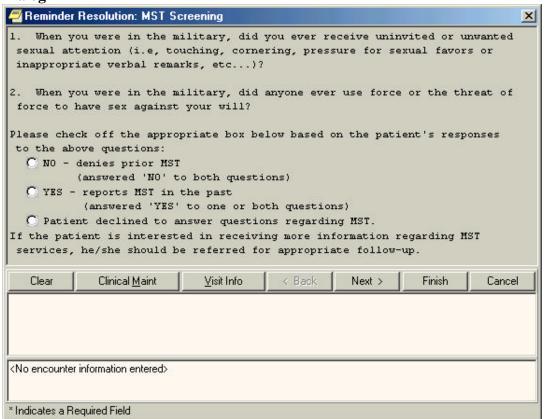
a. From the Reminder Managers Menu option, Reminder Dialog Management, choose the Reminder Dialogs option.
b. At the select item prompt, enter the number next to the reminder, VA-MST SCREENING.

c. At the select item prompt, enter the action Link Reminder and link the dialog, VA-MST SCREENING.

11. Test the MST reminder dialog in CPRS, using either the exported dialog or your locally created dialog.

- If a veteran has not been screened, the MST Clinical Reminder to screen the veteran will be due. The appropriate clinical staff will ask the veteran if he or she has experienced an occurrence of MST.

- When the veteran MST status is updated to YES, NO, or Declines to Answer, the MST reminder should no longer be due.

- The finding items are the MST health factors that are distributed with this reminder. The MST History file will be automatically updated when the dialog is completed. Other reminder dialogs which including finding items mapped to the MST terms will also update MST.

**Exported MST Screening Reminder
Dialog**

NOTE: You might also want to add a quick order for the referral to your dialog.

Helpful Hints & Troubleshooting

1. (*from Fargo VAMC, test site*) Before sites implement this reminder, they have to have their referral process set up for those patients that have reported MST. In our current reminder, we have a consult referral that automatically goes to Psychiatry. Trying to use this without proper consideration for a patient's needs would be a disaster.

This referral is an order dialog, which you cannot exchange; we have this under the Yes Health Factor.

```
Select ORDER DIALOG NAME: ORZ MST REFERRAL
NAME: ORZ MST REFERRAL                    DISPLAY TEXT: MST REFERRAL
  TYPE: quick order                       DISPLAY GROUP: CONSULTS
  PACKAGE: CONSULT/REQUEST TRACKING       VERIFY ORDER: NO
  AUTO-ACCEPT QUICK ORDER: YES
ITEM ENTRY: 1                             DIALOG: OR GTX ORDERABLE ITEM
  INSTANCE: 1                             VALUE: MST REFERRAL
ITEM ENTRY: 4                             DIALOG: OR GTX URGENCY
  INSTANCE: 1                             VALUE: ROUTINE
ITEM ENTRY: 2                             DIALOG: OR GTX WORD PROCESSING 1
  INSTANCE: 1
 TEXT:
 POSITIVE SCREEN, PER POLICY
ITEM ENTRY: 5                             DIALOG: OR GTX PLACE OF CONSULTATION
  INSTANCE: 1                             VALUE: Consultant's Choice
  TIMESTAMP: 58616,82345
```

Developer's Note: Although the national reminder dialog can't be changed locally, it is possible to modify the individual elements. One possible way to retain similar dialog functionality would be to modify the VA-MST SCREENING dialog on your site; i.e. change the HF MST YES element into a group and add the referral/declined referral elements to that group.

2. Alternative to the MST History report by patient
   (*from Fargo, test site*)

Instead of using the MST History report by patient, I ran a different one from Fileman. The sorting by status date would not be necessary, but I wanted to know what was the last date we had done the manual entry in the MST History from the health factor entries (this way I would know which patients I should doublecheck to make sure they are now in the MST History file after the patch). It shows a total of 4186 entries in the HF file and 1445 entries in the MST History file in our TEST account. Therefore, we should increase around 2741 with this patch. The number will be greater in production as we did our latest mirror image the end of June or early July.

```
Select VA FileMan Option: print File Entries

OUTPUT FROM WHAT FILE: MST HISTORY// <Enter>
SORT BY: MST CHANGE STATUS DATE// MST STATUS
```

```
START WITH MST STATUS: FIRST// <Enter>
  WITHIN MST STATUS, SORT BY: mst change STATUS DATE
  START WITH MST CHANGE STATUS DATE: FIRST// <Enter>
    WITHIN MST CHANGE STATUS DATE, SORT BY: name
    START WITH NAME: FIRST//<Enter>
      WITHIN NAME, SORT BY: <Enter>
STORE IN 'SORT' TEMPLATE: <Enter>
FIRST PRINT FIELD: MST STATUS
THEN PRINT FIELD: name
THEN PRINT FIELD: mst chANGE STATUS DATE
THEN PRINT FIELD: <Enter>
Heading (S/C): MST HISTORY LIST//<Enter>
DEVICE: spool132  DEVICE 2
```

3. CLINICAL REMINDER MST UPDATE PROBLEM
   (from Fargo, test site)

The following error is caused by the fact that the patient came in early (the day before) and when the clinician did the MST screen, they linked their note to this appointment. The Reminders MST Synchronization Job will file this change the following day. The error message for the MST synchronization has been enhanced for those times when the DGMSTAPI fails to do the update

```
Subj: CLINICAL REMINDER MST UPDATE PROBLEM  [#7978373] 24 Jan 02 16:29  15
lines
From: POSTMASTER
(Sender: ANDERSON,MARGARET A - V13 SENIOR SYSTEM ANALYST (MAGGIE (IRM,
FARGO)))
In 'IN' basket.   Page 1
-----------------------------------------------------------------------------
---
NEWSTAT^DGMSTAPI returned the following error:
MST CHANGE STATUS DATE IS NOT VALID
The following data was passed to NEWSTAT^DGMSTAPI
DFN= 53506
Status code= N
Date= 3020125.103
Provider= 865
Data source= 120890;AUPNVHF(
This corresponds to the following:
Patient= xxxxxxx,xxxxx
SSN= xxxxxxxxx
MST Status= No, Screened does not report MST
Date= 01/25/2002@10:30
Data type= HEALTH FACTORS
Name= MST NO DOES NOT REPORT
```

4. MST Synchronization-DG patch Conflict
ABELING,JOANNE E 22 Jan 02 12:26 34 lines

I have a couple of questions regarding a recent DG test patch. In the description, it states the following:

```
Subj: Copy of: DG*5.3*379 TEST v2  [#20143830]   Page 4

-------------------------------------------------------------------------
-----
 patch software.

 NOTE:  An Abort of this patch installation process will occur if the
        CPRS Clinical Reminders MST synchronization processing has not
        successfully completed.  The CPRS patch, PXRM*1.5*7 - CLINICAL
        REMINDERS MST FUNCTIONALITY, contains the Clinical Reminders MST
        synchronization functionality.

Our IRM programmer, Jim P.Sullivan, performed the synchronization and it
ended up creating two entries for each pt with MST data.  An example
follows:

     MST HISTORY REPORT

                       Print Date: Jan 22, 2002

  Status Date        Status   Site  Provider                Who entered
status


  TEST,TEST
  Jun 08, 2001@11:00  N       537   DOCTOR,ONE              SULLIVAN,JIM
P
  Jun 08, 2001@10:51:19 N     537   NURSE,ONE               NURSE,ONE
```

Why is synchronization required when the auto-update is in place? Why is it creating duplicate entries?

A: REDINGTON,PATRICK (Salt Lake City CIOFO) 23 Jan 02 10:19 10 lines

The initial synchronization is required so that data that was recorded before the auto-update was available will be stored in the MST History file. If your site always uses the dialog with its automatic storage in the MST History file then you will only need to do the initial synchronization.

The only reason that I can think of for getting two updates is that as the synchronization is running, it encounters some PCE data that is newer than what is in the MST History file so it does an update. As it continues to process, it encounters some more data that is still newer so it makes another update.

Appendices

Appendix A: VA-MST SCREENING Reminder
Appendix B: Reminder Dialog Description
Appendix C: Reminder Term Descriptions

Appendix A: MST Screening Reminder

```
REMINDER DEFINITION INQUIRY                        Jan 02, 2002 10:46:19 am  Page 1
--------------------------------------------------------------------------------

VA-MST SCREENING                    No.  81
-------------------------------------------

Print Name:                    MST Screening

Class:                         NATIONAL

Sponsor:                       Mental Health and Behavioral Science Strategic Gro
up and Women Veterans Health Program

Review Date:

Usage:                         CPRS, DATA EXTRACT, REPORTS

Related VA-* Reminder:

Reminder Dialog:               VA-MST SCREENING

Priority:

Reminder Description:
    All veterans should be screened at least once in their lifetime for
    Military Sexual Trauma.

    Sample Screening Questions.
       1. When you were in the military, did you ever receive uninvited
          and unwanted sexual attention (i.e. touching, cornering, pressure
          for sexual favors, verbal remarks)?

       2. When you were in the military, did anyone ever use force or the
          threat of force to have sex with you against your will?

    Documenting YES, NO, or Declined to Answer responses to Screening
    Questions:

      A YES response should be documented in progress notes, the MST History
      file, and local findings that represent the MST status (e.g.,health
      factors). A follow-up consult order for counseling should be considered
      for the veteran.

      A NO or DECLINES TO ANSWER response should be documented in progress
      notes, the MST History file, and local findings that represent the MST
      status (e.g., health factors).

    This national clinical reminder will ensure the VIA has the ability to
    meet congressional military sexual trauma treatment and reporting
    mandates by providing accurate data collection through the sharing of MST
    data between facilities and data collection agencies.

    This national clinical reminder will ensure the appropriate and timely
    counseling and treatment of individuals with an incidence of military
    sexual trauma.
```

```
Technical Description:
    To meet the national screening guidelines for Military Sexual Trauma,
    this reminder applies to ALL veterans both MALE and FEMALE.  The reminder
    will only need to be done once in a lifetime. It is resolved by entering
    a Military Sexual Trauma (MST) status.

    This reminder checks for a Military Sexual Trauma (MST) status in the
    "MST HISTORY" file. It also checks local findings representing MST
    statuses that are mapped to the following national reminder terms:
            MST POSITIVE REPORT
            MST NEGATIVE REPORT
            MST DECLINES REPORT

    See the patch description (PXRM*1.5*7) and the MST Reminder Installation
    and Setup Guide for further information and instructions.

    The patient cohort is all veterans. The determination of whether or not a
    patient is a veteran is done using the computed finding VA-VETERAN.

Edit History:

    Edit date:  Nov 15, 2001@10:10:09   Edit by:    REDINGTON,PATRICK
    Edit Comments:  Add computed finding VA-VETERAN with an "&" in
                    the USE IN PATIENT COHORT LOGIC field.


    Edit date:  Sep 24, 2001@09:38:49   Edit by:    REDINGTON,PATRICK
    Edit Comments:  Exchange Install




Baseline Frequency:

      Do In Advance Time Frame:  Wait until actually DUE
                  Sex Specific:
                 Ignore on N/A:  *
      Frequency for Age Range:  99Y - Once for all ages
                    Match Text:
                 No Match Text:


Findings:

                  Finding Item: MST POSITIVE REPORT  (FI(1)=RT(28))
                  Finding Type: REMINDER TERM
      Use in Resolution Logic: OR

                  Finding Item: MST NEGATIVE REPORT  (FI(2)=RT(29))
                  Finding Type: REMINDER TERM
      Use in Resolution Logic: OR

                  Finding Item: MST DECLINES REPORT  (FI(3)=RT(30))
                  Finding Type: REMINDER TERM
      Use in Resolution Logic: OR
              Effective Period: 1Y

                  Finding Item: VA-VETERAN  (FI(4)=CF(9))
                  Finding Type: REMINDER COMPUTED FINDING
  Use in Patient Cohort Logic: AND

General Patient Cohort Found Text:
```

```
General Patient Cohort Not Found Text:

General Resolution Found Text:

General Resolution Not Found Text:
    All veterans should be screened at least once is their lifetime for
    Military Sexual Trauma.

    Sample Screening Questions:
        1. When you were in the military, did you ever receive uninvited
           and unwanted sexual attention (i.e. touching, cornering, pressure
           for sexual favors, verbal remarks)?

        2. When you were in the military, did anyone ever use force or the
           threat of force to have sex with you against your will?

    Document YES, NO, or DECLINED TO ANSWER responses to Screening.

Default PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
     (SEX)&(AGE)&FI(4)

Expanded Patient Cohort Logic:
     (SEX)&(AGE)&FI(VA-VETERAN)

Default RESOLUTION LOGIC defines findings that resolve the Reminder:
     FI(1)!FI(2)!FI(3)

Expanded Resolution Logic:
     FI(MST POSITIVE REPORT)!FI(MST NEGATIVE REPORT)!FI(MST DECLINES REPORT)


Web Sites:
```

VA-VETERAN Computed Finding

```
NAME: VA-VETERAN                        ROUTINE: PXRMPDEM
  ENTRY POINT: VETERAN                  PRINT NAME: Veteran
 DESCRIPTION:   This computed finding returns a true (1) for TEST if the
 patient is a veteran and false (0) otherwise. DATE is always today's date.
 VALUE is always null and TEXT is not set.
  CLASS: NATIONAL
EDIT DATE: NOV 14, 2001@15:16:12        EDIT BY: REDINGTON,PATRICK
```

Appendix B: VA-MST Screening Dialog

```
REMINDER DIALOG INQUIRY            Dec 13, 2001 9:47:58 am   Page 1
-----------------------------------------------------------------------

        NUMBER: 367

  DIALOG NAME:     VA-MST SCREENING
         Type:     reminder dialog

         Associated reminder:
                        Class:   NATIONAL
                      Sponsor:
                  Review Date:

  Edit History:

    Edit Date: AUG 28,2001  11:59         Edit By: HARTLEY,PETER
    Edit Comments:   Copied from VA-MST SCREENING

      DIALOG COMPONENTS:

               Sequence:   10
         Element/Group:   VA-TEXT MST STATUS QUESTIONS
                   Text:

               Sequence:   30
         Element/Group:   VA-TEXT MST SERVICES
                   Text:
  If the patient is interested in receiving more information regarding MST
  services, he/she should be referred for appropriate follow-up.
```

Appendix C: National Reminder Term Descriptions

MST POSITIVE REPORT

```
REMINDER TERM INQUIRY                         Jan 02, 2002 10:39:09 am  Page 1
--------------------------------------------------------------------------------

MST POSITIVE REPORT                                             No.28
-------------------------------------------------------------------------------
Class:                    NATIONAL
Sponsor:                  Mental Health and Behavioral Science Strategic Group and
 Women Veterans Health Program
Date Created:             JUL 25,2001
Review Date:

Description:
    This term represents a positive response to the Military Sexual Trauma
    Screening questions.

    This term is distributed with mapping to two potential findings:

    1)      Computed Finding: MILITARY SEXUAL TRAUMA SCREEN with CONDITON
    field check for "Y". This Computed Finding checks for the MST HISTORY
    status of YES.

    2)      Health Factor: MST YES REPORTS This Health Factor represents
    positive screening for MST.


    Enter any local finding that your facility is using to represent a
    positive MST screening value.   (Typical findings may be health factors,
    exams, or education topics)

Edit History:

    Edit Date: SEP 24,2001  09:01      Edit By: REDINGTON,PATRICK
    Edit Comments:  Exchange Install

Findings:

                 Finding Item:  VA-MST STATUS  (FI(1)=CF(8))
                 Finding Type:  REMINDER COMPUTED FINDING
                    Condition:  I V="Y"

                 Finding Item:  MST YES REPORTS  (FI(2)=HF(77))
                 Finding Type:  HEALTH FACTOR
```

MST NEGATIVE REPORT

```
REMINDER TERM INQUIRY                              Jan 02, 2002 10:42:54 am  Page 1
--------------------------------------------------------------------------------

MST NEGATIVE REPORT                                                No.29
-------------------------------------------------------------------------------
Class:                  NATIONAL
Sponsor:                Mental Health and Behavioral Science Strategic Group and
 Women Veterans Health Program
Date Created:           JUL 25,2001
Review Date:

Description:
    This term represents a negative response to the Military Sexual Trauma
    Screening questions.

    This term is distributed with mapping to two potential finding types:

    1)      Computed Finding: MILITARY SEXUAL TRAUMA SCREEN with CONDITION
    field check for "N". This Computed Finding checks for the MST HISTORY
    status of NO.

    2)      Health Factor: MST NO DOES NOT REPORT This Health Factor
    represents negative screening for MST.

    Enter any local finding that your facility is using to represent a
    negative MST screening value.   (Typical findings may be health factors,
    exams, or education topics)

Edit History:

    Edit Date: SEP 24,2001  09:01      Edit By: REDINGTON,PATRICK
    Edit Comments:  Exchange Install

Findings:

                 Finding Item:  VA-MST STATUS  (FI(1)=CF(8))
                 Finding Type:  REMINDER COMPUTED FINDING
                    Condition:  I V="N"

                 Finding Item:  MST NO DOES NOT REPORT  (FI(2)=HF(76))
                 Finding Type:  HEALTH FACTOR
```

MST DECLINES REPORT

```
REMINDER TERM INQUIRY                               Jan 02, 2002 10:44:17 am   Page 1
--------------------------------------------------------------------------------

MST DECLINES REPORT                                                    No.30
-------------------------------------------------------------------------------
Class:                  NATIONAL
Sponsor:                Mental Health and Behavioral Science Strategic Group and
 Women Veterans Health Program
Date Created:           JUL 25,2001
Review Date:

Description:
    This term represents a declines to answer response to the Military Sexual
    Trauma Screening questions.

    This term is distributed with mapping to two potential finding types:

    1)      Computed Finding: : MILITARY SEXUAL TRAUMA SCREEN with CONDITION
    field check for "D". This Computed Finding checks for the MST HISTORY
    status of DECLINES.

    2)      Health Factor: MST DECLINES TO ANSWER This Health Factor
    represents declines screening for MST.

    Enter any local finding that your facility is using to represent a
    declined MST screening value.

Edit History:

    Edit Date: SEP 24,2001  09:01        Edit By: REDINGTON,PATRICK
    Edit Comments:  Exchange Install

Findings:

                    Finding Item:  VA-MST STATUS  (FI(1)=CF(8))
                    Finding Type:  REMINDER COMPUTED FINDING
                       Condition:  I V="D"

                    Finding Item:  MST DECLINES TO ANSWER  (FI(2)=HF(75))
                    Finding Type:  HEALTH FACTOR
```

Synchronization Example

```
Select Reminders MST Synchronization Management Option: syn  Reminders
MST Synchronization
Queue the Clinical Reminders MST synchronization.
Enter the date and time you want the job to start.
It must be after 10/10/2001@12:45:22 n
Do you want to run the MST synchronization at the same time every day?
Y// NO  NO
Task number 441 queued.

Oct 10, 2001 12:45:48 pm  (UCI: TST,ROU)  NTT
```

```
Task list  Oct 10, 2001 12:48 pm                                    Page 1
-------------------------------------------------------------------------
441: SYNCH^PXRMMST, Clinical Reminders MST synchronization job.  No
device.
     TST,ROU.  From Today at 12:48,  By you.  Scheduled for Tomorrow at
12:45


<TEST ACCOUNT> Select Reminders MST Synchronization Management Option:
rep  Reminders MST Synchronization Report

Clinical Reminders MST Synchronization Report
---------------------------------------------
Initial synchronization date: Oct 10, 2001@12:48:01
Number of updates made: 6578
Elapsed time:  0:02:30


Last daily synchronization date:
Number of updates made:
Elapsed time: 0 secs
```